

## Brief Facts about ASHRAE 90.1 (2010)

### Overview:

Applies to all buildings except low rise residential

- New buildings and additions

- New systems in existing buildings

Required for LEED Certification

Energy Policy Act of 1992 (EPACT 92) requires states to adopt or have energy codes equal to 90.1

Certifications or Requests for Extension of Deadlines, solely with regard to ASHRAE Standard 90.1-2010, will be due to DOE by October 18, 2013. All states have two years to adopt ASHRAE Standard 90.1-2010 or upgrade their existing commercial building codes or standards to meet or exceed its requirements.

## ASHRAE 90.1 - Receptacle Control (8.4.2) (2010)

At least 50% of all 125volt 15 and 20 amp receptacles, including those installed in modular partitions, installed in the following spaces:

- a. Private Offices
- b. Open Offices
- c. Computer Classrooms

Shall be controlled by an Automatic control device that shall function on:

- a. A schedule basis
- b. An occupancy sensor
- c. A signal from another control system

### 8.4.2.1 Monitoring.

Measurement devices shall be installed to monitor the electrical energy use for each of the following separately:

- a. Total electrical energy
- b. HVAC Systems
- c. Interior lighting
- d. Exterior lighting
- e. Receptacle circuits

For buildings with tenants, these systems shall be separately monitored for the total building and (excluding shared systems) for each individual tenant.

### 8.4.2.2 Recording and Reporting.

The electrical energy usage for all loads specified in Section 8.4.2.1 shall be recorded a minimum of every 15 minutes and reported at least hourly, daily, monthly, and annually. The data for each tenant space shall be made available to that tenant. The system shall be capable of maintaining all data collected for a minimum of 36 months.

### Exceptions to 8.4.2.1 and 8.4.2.2:

- a. Building or additions less than 10,000 ft<sup>2</sup>
- b. Individual tenant spaces less than 5,000 ft<sup>2</sup>
- c. Dwelling units
- d. Residential buildings with less than 10,000 ft<sup>2</sup> of common area